SPIRA FIRE PROTECTION LTD.

MEMBER CASA CANADIAN AUTOMATIC SPRINKLER ASSOCIATION

31 HAYES AVE., GUELPH, ONTARIO N1E 5V6 PHONE (519) 823-1150 FAX (519) 822-7752

OPERATING INSTRUCTIONS FOR MANUAL & AUTOMATIC WET ALARM VALVE SPRINKLER SYSTEM

COMPONENTS (SEE DIAGRAM ON BACK OF THIS SHEET)

1. MAIN CONTROL VALVE (NORMALLY OPEN)
2. MAIN DRAIN VALVE (NORMALLY CLOSED)
3. PRESSURE PUMP INTAKE CONTROL VALVE (NORMALLY CLOSED FOR MANUAL MODEL AND OPEN FOR AUTOMATIC MODEL)
4. PRESSURE PUMP DISCHARGE CONTROL VALVE (NORMALLY CLOSED FOR MANUAL MODEL AND OPEN FOR AUTOMATIC MODEL)
5. PRESSURE PUMP SWITCH (NORMALLY OFF FOR MANUAL MODEL AND NORMALLY ON FOR AUTOMATIC MODEL)
6. ALARM TEST VALVE (NORMALLY CLOSED)
7. ALARM SHUT-OFF VALVE (NORMALLY OPEN) IF INSTALLED.

INSTRUCTIONS FOR TESTING SYSTEM

(A) NOTIFY FIRE DEPARTMENT, SECURITY COMPANY, PERSONNEL AND ALL OCCUPANTS THAT A TEST IS GOING TO BE CONDUCTED.
(B) TO TEST ALARM OPERATION ONLY, OPEN ALARM TEST VALVE #6 UNTIL ALARM IS ACTIVATED. RETURN VALVE TO CLOSED POSITION.
(C) TO TRIP TEST ALARM VALVE, SHUT OFF PUMP SWITCH #5 IF AUTOMATIC MODEL, OPEN MAIN DRAIN VALVE #2 OR THE INSPECTORS TEST VALVE AT END OF THE SYSTEM AND WAIT FOR ALARMS TO SOUND.
(D) CLOSE MAIN DRAIN VALVE OR INSPECTORS TEST VALVE. ALARMS SHOULD SHUT OFF WHEN VALVE IS CLOSED.
(E) PRESSURIZE SYSTEM (SEE BELOW)

INSTRUCTIONS FOR DRAINING SYSTEM

(A) NOTIFY FIRE DEPARTMENT, SECURITY COMPANY AND ALL PERSONNEL.
(B) SHUT OFF PUMP SWITCH #5 IF AUTOMATIC MODEL.
(C) CLOSE MAIN SHUT OFF VALVE #1.
(D) OPEN MAIN DRAIN VALVE #2.
(E) OPEN THE INSPECTORS TEST VALVE AT THE END OF THE SYSTEM.

INSTRUCTIONS FOR RE-FILLING SYSTEM

(A) CLOSE THE INSPECTORS TEST VALVE AT THE END OF THE SYSTEM.
(B) CLOSE THE MAIN DRAIN VALVE #2.
(C) OPEN THE MAIN SHUT OFF VALVE #1.

INSTRUCTIONS FOR PRESSURIZING SYSTEM

(D) OPEN PRESSURE PUMP CONTROL VALVES #3 & #4
(E) TURN ON PRESSURE PUMP SWITCH #5.
-AUTOMATIC MODEL: ALLOW SYSTEM PRESSURE (UPPER GAUGE) TO RISE TO 125 PSI. OR 50 PSI. ABOVE THE LOWER GAUGE PRESSURE. THE PUMP SHOULD STOP AUTOMATICALLY WHEN THE PRESSURE SWITCH IS SATISFIED.
-MANUAL MODEL: ALLOW SYSTEM PRESSURE (UPPER GAUGE) TO RISE TO 125 PSI. OR 50 PSI. ABOVE THE LOWER GAUGE PRESSURE. TURN OFF PRESSURE PUMP SWITCH #5 AND CLOSE PRESSURE PUMP CONTROL VALVES #3 & #4.
(F) DOUBLE CHECK THAT VALVES #1 - #7 ARE IN THEIR NORMAL POSITION.
(F) NOTIFY FIRE DEPARTMENT, SECURITY COMPANY, PERSONNEL AND ALL OCCUPANTS THAT THE SYSTEM IS ON.

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